ctys-extractMAClst
generates a list of mappings

March 12, 2011

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1   NAME

cts-extractMAClst - generates a list of mappings DHCP

2   SYNTAX

cts-extractMAClst

```
[-d <debug-args>]
[-E]
[-n|-i|-m]
[-h]
[-H <help-options>]
[-p <db-dir-path>]
[-P]
[-q]
[-V]
[-X]
<pathname-of-dhcpd.conf>
```

3   DESCRIPTION

cts-extractMAClst generates a list of 3-column table containing:

- <nodename>;<IP-Address>;<MAC-Address>

Alternatively output to stdout could be generated for usage in "/etc/ethers".

- <MAC-Address> <nodename>

or

- <MAC-Address> <IP-Address>

Therefore this tool requires as source a valid "dhcpd.conf"-Syntax as defined by ISC.
Static configured address mappings are supported only. Dynamic allocated leases of address ranges are not supported.
cts-tools generally expect for input generated files with default column-order, which is defined by "-n".
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4   OPTIONS

-d <debug-args>
    Refer to "ctys" generic options for additional information.

-E
    Generates output for "/etc/ethers". This is required when using ether-wake for WoL, what is no longer supported by ctys.

    The options "-n" and "-i" become in combination with "-E" a slightly different semantic:

  - -n output is "<MAC-addr> <DNS name>"
  - -i output is "<MAC-addr> <dotted IP address>"
    The option is not supported with "-E".

-n|-i|-m

Default output is "-n".

- -n Print sorted records: <name>;<MAC>;<IP>
- -i Print sorted records: <IP>;<name>;<MAC>
- -m Print sorted records: <MAC>;<name>;<IP>

-h

Print help.

-p <db-dir-path>

Directory for data to be stored. This is - and has to be in this version - the same directory as used by ctys-vdbgen and ctys-vhost.

So each file-based ctys-DB requires it's own mapping file for now. This is going to be extended when the LDAP based addressing is introduced. Anyhow, this feature will remain, because it has some advantages for daily business when setting up small to medium networks or multiple test-environments.

The hard-coded filename is "macmap.cfdb"

-P

Almost same as "-p", but takes default ctys-file-DB, provided by DEFAULT_DBPATHLST.

Default output is stdout.

-V

Version.

-X

Terse output format, effects "-V" when set left-of.

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5   ARGUMENTS

This tool requires a valid "dhcpd.conf"-Syntax.
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6   EXIT-VALUES

0: OK: Result is valid.

1: NOK: Erroneous parameters.

2: NOK: Missing an environment element like files or databases.

7 SEE ALSO

ctys executables *ctys-extractARPlst(1)*, *ctys-vping(1)*, *ctys-vhost(1)*

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